

BPM blocks offset calibration using Lamberson method

Tuesday 4 June 2019 13:30 (25 minutes)

The upgraded ESRF's storage ring comes with brand new BPM. Unfortunately BPM blocks are not ideal and gives the beam position with a random offset coming from mechanical imperfection of the buttons and the vacuum chamber. In order to estimate and compensate for these offsets we measured the button-to-button RF transmission on every BPM block, which can yield to an estimate of BPM blocks offsets (the so-called Lamberston method). In this talk I will give details on the measurement we performed, and present a statistical analysis of the data which gives useful informations on the errors and reproducibility of this measurement.

Author: ROCHE, Benoît (ESRF)

Presenter: ROCHE, Benoît (ESRF)

Track Classification: BPM error compensation schemes